

## REMARKS

Applicants appreciate the thorough and detailed examination of the present application as evidenced by the Office Action dated October 31, 2007 (hereinafter, "the Office Action"). Applicants further appreciate the indication that several of the rejections presented in the previous Office Action have been withdrawn.

Applicants appreciate the indication that Claims 12, 13, 19 and 32-35 have been allowed. Upon entry of the present Amendment, Claims 12, 13, 19-21, 26, 32-35, 48 and 52 are pending in the application, and Applicants respectfully submit that these claims are patentable for at least the reasons discussed below.

### **I. Claim Rejections Under 35 U.S.C. § 102**

#### **A. Claims 20, 21 and 48**

Claims 20, 21 and 48 stand rejected under 35 U.S.C. §102(a) as being anticipated by Dai et al. Synthesis and Evaluation of Novel Organoelement Resists for EUV Lithography. *Proceedings of SPIE 5039*: 1164-1172 (2003). See Office Action, page 2. The Office Action indicates that the effective filing date of Claims 20, 21 and 48 is March 12, 2004 and states that the "[i]nstant rejection can be overcome by canceling present claims 20 and 21 and by deleting all of those polymers in claim 48 except for 'poly(styrene-b-isoprene)' and 'hydroxylated poly(styrene-b-isoprene)' (by doing so, the effective filing date of claim 48 becomes March 12, 2003, and thus, the reference, Dai et al, which is dated June 2003, cannot be prior art anymore)." Office Action, page 3.

In order to expedite allowance of the present application, Applicants have amended Claim 48 to delete the polymers listed with the exception of poly(styrene-b-isoprene) and hydroxylated poly(styrene-b-isoprene). Regarding, Claims 20 and 21, Applicants respectfully submit that the rejection to these claims can be overcome by filing a declaration under 37 C.F.R. §1.131 to show prior inventorship.

#### **B. Claims 45, 48 and 52**

Claims 45, 48 and 52 stand rejected under 35 U.S.C. §102(b) as being anticipated by Chung et al. Metallocene-Mediated Olefin Polymerization with B-H Chain transfer agents: Synthesis of Chain-End Functionalized Polyolefins and Diblock Copolymers. *Macromolecules* 34:8040-8050 (2001). See Office Action, page 3.

Applicants have canceled Claim 45 and amended Claim 48 as noted above. Regarding Claim 52, Applicants respectfully submit that Chung et al. does not teach "a method for increasing the reactive ion etch resistance of a polymer" as recited in Claim 52 as required to establish anticipation under 35 U.S.C. §102.

**C. Claim 48**

Claim 48 stands rejected under 35 U.S.C. §102(b) as being anticipated by Dai et al. *Organoelement Resists for EUV Lithography. Proceedings of SPIE 4690: 1193-1202 (2002)*. See Office Action, page 3. The Office Action indicates that the "[i]nstant rejection can be overcome by deleting all of those polymers in claim 48 except for 'poly(styrene-b-isoprene)' and 'hydroxylated poly(styrene-b-isoprene).'" Office Action, page 3. As noted above, Applicants have amended Claim 48 in a manner consistent with the suggestions proffered in the Office Action.

Accordingly, Applicants respectfully request reconsideration of the anticipation rejection of the pending claims at least in view of the foregoing.

**II. Claim Rejections Under 35 U.S.C. §103**

Claim 26 stands rejected under 35 U.S.C. §103(a) as being anticipated by U.S. Patent No. 3,816,380 to Reed, Jr. See Office Action, page 4. More specifically, the Office Action states that the "[i]nstant rejection can be overcome by deleting 'carborane' from claim 26." Applicants have amended Claim 26 in a manner consistent with this statement.

Thus, Applicants respectfully request that the rejection of Claim 26 under 35 U.S.C. § 103 be withdrawn.

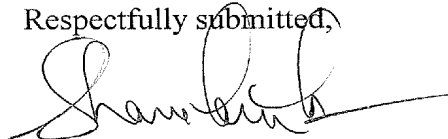
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### Conclusion

Applicants respectfully request reconsideration of the present application in view of the foregoing.

The Examiner is invited and encouraged to contact the undersigned in order to advance prosecution of the pending claims to issue. In any event, any questions that the Examiner may have should be directed to the undersigned, who may be reached at (919) 854-1400.

Respectfully submitted,

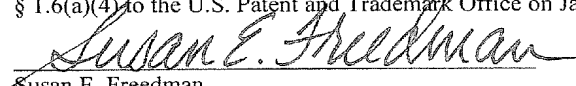


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### CERTIFICATION OF TRANSMISSION

I hereby certify that this correspondence is being transmitted via the Office electronic filing system in accordance with § 1.6(a)(4) to the U.S. Patent and Trademark Office on January 31, 2007.



Susan E. Freedman

Date of Signature: January 31, 2007